PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE erwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/806,717 Filing Date TRANSMITTAL March 22, 2004 First Named Inventor **FORM** Oleg M. Efimov Art Unit 2872 **Examiner Name** Shafer, Ricky D. (to be used for all correspondence after initial filing) Attorney Docket Number PF-03W152 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC 1 Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC |**~**| Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer **Extension of Time Request** below): Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name RAYTHEON COMPANY Signature Printed name JOHN E. GUNTHER Date Reg. No. 43,649 October 27, 2004 **CERTIFICATE OF TRANSMISSION/MAILING** I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature Date 10-27-2004 JOHN E. GUNTHER Typed or printed name

This collection of information is required by 37 CFR 1.5 The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (10-04v2)
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for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$)	372.	00

espond to a collection of information driess it displays a valid of the control number.							
Complete if Known							
Application Number	10/806,717						
Filing Date	March 22, 2004						
First Named Inventor	Oleg M. Efimov						
Examiner Name	Shafer, Ricky D.						
Art Unit	2872						
Attorney Docket No.	PD-03W152						

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None 3. ADDITIONAL FEES						
Deposit Account:			Small		•	
Denosit	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number	1051	130	2051		Surcharge - late filing fee or oath	
Deposit Account RAYTHEON COMPANY	1052	50	2052	25	Surcharge - late provisional filing fee or	
Name	1053	130	1053	130	cover sheet Non-English specification	
The Director is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments		2,520	1812		For filing a request for ex parte reexamination	
Charge fee(s) indicated below Credit any overpayments  Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*		
Charge fee(s) indicated below, except for the filing fee	4005	4 0 40+	4005	4 0 4 0 *	Examiner action	
to the above-identified deposit account.	1805	1,840*	1805	1,840"	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	430	2252	215	Extension for reply within second month	
Large Entity Small Entity	1253	980	2253	490	Extension for reply within third month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,530	2254	765	Extension for reply within fourth month	
1001 790 2001 395 Utility filing fee	1255	2,080	2255	1,040	Extension for reply within fifth month	
1002 350 2002 175 Design filing fee	1401	340	2401	170	Notice of Appeal	
1003 550 2003 275 Plant filing fee	1402	340	2402	170	Filing a brief in support of an appeal	
1004 790 2004 395 Reissue filing fee	1403	300	2403	150	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$)		110	2452	55	Petition to revive - unavoidable	
		1,370	2453	685	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,370	2501	685	Utility issue fee (or reissue)	
Extra Claims below Fee Paid	1502	490	2502	245	Design issue fee	
Total Claims 45 -20** = 06		660	2503	330	Plant issue fee	
Independent -3** = 03 × 88 = 264 Multiple Dependent	1460	130	1460	130	Petitions to the Commissioner	
	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity   Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	
Code (\$) Code (\$)	8021	40	8021	1 40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20	1809	790	2809		Filing a submission after final rejection	
1201 88 2201 44 Independent claims in excess of 3 1203 300 2203 150 Multiple dependent claim, if not paid	1010	700	2040	205	(37 CFR 1.129(a))	
1203 300 2203 150 Multiple dependent claim, il not paid 1204 88 2204 44 ** Reissue independent claims	1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))	
over original patent	1801	790	2801	395	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 372.00	Other	fee (sp	ecify) _			
**or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic f	Filing F	ee Paid SUBTOTAL (3) (\$)	

SUBMITTED BY				(Complete (if applicable))		
Name (Print/Type)	JOHN E. GUNTHER	Registration No. (Attorney/Agent) 43,649	Telephone	310-647-3723		
Signature	the houle		Date	10-27-2004		

MARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Oleg M. Efimov et al.

Serial No. 10/806,717

Filed: 03/22/2004

For: NONRECIPROCAL OPTICAL ...

Group Art Unit 2872

Examiner: Shafer, Ricky D.

Date: October 27, 2004

## AMENDMENT A

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated September 8, 2004, please amend the above-identified application as follows and consider the subsequent Remarks:

11/03/2004 EABUBAK1 00000002 500616 10806717

01 FC:1201 02 FC:1202 264.00 DA 108.00 DA